

California State Board of Equalization
450 N Street, Sacramento, California

Monthly Air Monitoring Report
July 2012

Project No. 2372.02-572



Prepared for:
California Department of General Services
707 Third Street, 3-305
Sacramento, California 95605

Prepared by:
Chris Corpuz, MS, CIH
Senior Manager
LaCroix Davis LLC

Report Date:
August 15, 2012

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1.0 Introduction

On July 2, 2008, LaCroix Davis LLC (LCD) was contracted by the State of California, Department of General Services (DGS), Real Estate Services, Project Management Branch (RES, PMB) to provide building and environmental forensic services at the Board of Equalization (BOE) building located at 450 N Street, Sacramento, California. The BOE building was substantially completed in December 1992 and has experienced a variety of water-related events throughout its history.

On September 30, 2011, LCD's original contract was amended by Contract Amendment 3126150 Am. 7 to include the following Monthly Air Monitoring activity:

“Contractor shall provide monthly (once per month) air monitoring of the building during that portion of the day in which the building HVAC system is fully-operational. Eleven (11) floors will be monitored per month starting with the even-numbered floors on the first month that monthly air monitoring starts, and then switching to the odd-numbered floors on the following month. Switching between even and odd-numbered floors will continue during successive months; resulting in a total of 12 sampling events throughout a 12-month period: six (6) sampling events on even-numbered floors and six (6) sampling events on odd-numbered floors.”

The DGS and BOE industrial hygienists (IH) agreed on the following approach for the monthly air monitoring for each team:

- Collection of three (3) samples per tenant floor (33 total) and three (3) outdoor samples;
- Sample analysis by Polymerase Chain Reaction (PCR) for custom *Cladosporium* panel and PCR-23 important indoor molds using laboratory standard turn-around times unless directed to do otherwise by DGS.

The IHs proposed a re-occurring air sampling date and submitted it to BOE for approval; BOE has approved the last Friday of every month for the monthly air monitoring. BOE notified the Building Security that the IHs will require escorts onto secure floors in order to install sampling pumps.

The LCD field project team is staffed by personnel from various LCD offices under the project management of Mr. Chris Corpuz, Senior Manager.

2.0 Air Monitoring

On behalf of DGS, the LCD team performed air monitoring in accordance with the Monthly Air Monitoring Schedule and Revised Protocol (Attachment A) on July 27, 2012. During that time, the building HVAC system operated from 5:00 AM to 6:00 PM. Therefore, the sampling window was from 4:00 AM to 7:00 PM for sample set-up and three rounds of sampling on each floor. (The actual sampling window will be changed as seasonal adjustments are made to the HVAC system operating window.)

LCD collected three (3) air samples on each of the eleven (11) even-numbered floors designated for the July monitoring. Each air sample was drawn over approximately 3 hours. A target sample rate of seven (7) liters per minute (LPM) was used.

LCD also collected a total of three (3) exterior/outdoor samples; one (1) sample was taken per sampling period. In addition, one (1) field blank was submitted for analysis.

A total of 33 interior samples, three (3) exterior samples, and one (1) field blank were submitted under chain of custody to the laboratory and analyzed for PCR – Cladosporium (custom panel). The exterior samples, the field blank, and one (1) sample per floor were also analyzed for PCR-23 Important Indoor Molds. The analytical results are summarized in Table 1. The lab reports are included in Appendix B, Lab Reports.

The Mechanical Floor, the Penthouse Floor, and the core sampling ports on Floors 2 and 21 are not part of the monthly monitoring schedule. At the direction of the DGS management team, samples from these areas may be added to the regular schedule. However, no indoor air samples were added and collected from either one of these locations during this monthly monitoring event in July 2012.

To demonstrate any seasonal changes within the HVAC duct interiors, surface microvac samples – not part of the regular sampling project schedule – may be added to the regular schedule. However, no microvac samples were collected during the monthly monitoring event in July 2012.

3.0 Findings

With two exceptions, all indoor air samples indicated spore equivalents per cubic meter (SE/m³) below background concentrations detected in outdoor samples. One sample from the NW quadrant of Floor 22 indicated the presence of one (1) SE/m³ of *Chaetomium globosum*, whereas this species was not detected in the background samples. *Penicillium chrysogenum* was detected at 3 SE/m³ in one sample from the W side of Floor 18 while the species was not detected in the background samples.

The detected concentrations are considered low. Low SE values can be an indication of mold debris and do not necessarily indicate the presence of mold spores. Based on historical monitoring of these areas, the detections appear to be isolated events and unremarkable, but will be checked against future samples collected in these areas.

Based on the July 2012 monitoring results, molds detected in the HVAC ducts do not appear to have impacted the air quality of the office spaces.

4.0 Limitations and Qualifications

The assessment performed by LCD does not include or cover the following matters: Matters that are subsequently discovered that could not have been reasonably foreseen or detected, using industry standards, during the performance of the assessment; matters that could not have been discovered by LCD because of barriers, lack of access or other matters affecting accessibility; matters that were not disclosed to LCD prior to, during, or after the performance of the assessment; any new deficiency that arose after the completion of the assessment by LCD.

To the extent that additional information becomes available to LCD, LCD reserves the right (without any obligation to do so) to modify its evaluation and/or this report at any time, based upon further review and analysis of any such additional information or data.

Certain items mentioned in the report were performed by others not involving the supervision of, or management by, LCD, but were relied upon by LCD in making its evaluation and assessment.

The assessment performed by LCD is not meant or intended to supplement, modify, or extinguish any warranty or representation made or given by third parties performing any of the recommended corrective work.

When consultation involves microbiological growth, or any assessment thereof, such microbiological growth may reoccur if the source of the growth is not remedied. All remediation of fungi in indoor environments can be inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and site evaluation. Except as may be noted in the assessment performed by LCD, subsurface areas, latent defects, or non-accessible areas and conditions were not field investigated and may differ from the conditions implied by the surface observations. Additionally, the passage of time may result in a change in the environmental characteristics at the subject property and the surrounding properties. No investigation or assessment can absolutely rule out the existence of any microbiological growth at any given site. LCD does not remediate or remedy sources of microbiological growth.

This Report and the assessment/survey conducted by LCD is prepared, and was performed, solely for the use and benefit of the client identified at the beginning of this report. No other party may rely on this report for any other purpose.

Report prepared by,



Chris Corpuz, MS, CIH
Senior Manager
LaCroix Davis LLC

Report reviewed by,



Stephen C. Davis, MPH, CIH
Principal
LaCroix Davis LLC

TABLES

Table 1 - July 2012 Air Monitoring Results
Board of Equalization Building, Sacramento

Location	Sample Number	PCR - Custom Panel Cladosporium						PCR - 23 Important Indoor Molds (Only species detected indoors this month are listed.)															
		Cladosporium sphaerospermum		Cladosporium herbarum		Cladosporium cladosporioides II		Cladosporium cladosporioides I		Aspergillus fumigatus		Aspergillus niger		Chaetomium globosum		Eurotium amstelodami		Paecilomyces variotii		Penicillium brevicompactum		Penicillium chrysogenum	
		SE	SE/m ³	SE	SE/m ³	SE	SE/m ³	SE	SE/m ³	SE	SE/m ³	SE	SE/m ³	SE	SE/m ³	SE	SE/m ³	SE	SE/m ³	SE	SE/m ³	SE	SE/m ³
Floor 24, Core, Hall S & W	2372-72712-P02	1	1	1	1	1	1	5	4														
Floor 24 E	2372-72712-P14	1	1	1	1	1	1	22	17	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	3	3	ND	<1
Floor 24 W	2372-72712-P26	ND	<1	ND	<1	ND	<1	ND	<1														
Floor 22, Elevator Lobby	2372-72712-P03	1	1	1	1	1	1	47	38														
Floor 22 N	2372-72712-P15	ND	<1	1	1	1	1	11	9														
Floor 22 NW	2372-72712-P27	1	1	2	2	1	1	17	13	ND	<1	ND	<1	1	1	ND	<1	ND	<1	ND	<3	ND	<1
Floor 20, Core, Hall S & W	2372-72712-P04	ND	<1	2	1	1	1	4	3	ND	<1	14	11	ND	<1	ND	<1	ND	<1	ND	<2	ND	<1
Floor 20 W	2372-72712-P16	ND	<1	1	1	1	1	3	2														
Floor 20 E	2372-72712-P28	ND	<1	ND	<1	ND	<1	8	6														
Floor 18, Core Hall N & E	2372-72712-P05	ND	<1	1	1	1	1	8	6														
Floor 18 W	2372-72712-P17	ND	<1	1	1	ND	<1	2	2	ND	<1	ND	<1	ND	<1	ND	<1	1	1	ND	<2	4	3
Floor 18 NE	2372-72712-P29	ND	<1	1	1	ND	<1	ND	<1														
Floor 16, Core, Hall S & W	2372-72712-P06	ND	<1	ND	<1	ND	<1	ND	<1														
Floor 16 NW	2372-72712-P18	ND	<1	1	1	ND	<1	7	5														
Floor 16 SE	2372-72712-P30	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<3	ND	<1
Floor 14, Core, Hall N & E	2372-72712-P07	ND	<1	1	1	1	1	5	4	ND	<1	1	1	ND	<1	ND	<1	ND	<1	ND	<3	ND	<1
Floor 14 NE	2372-72712-P19	ND	<1	1	1	1	1	ND	<1														
Floor 14 S	2372-72712-P31	ND	<1	1	1	ND	<1	5	4														
Floor M, Exterior, N OA	2372-72712-P13	1	1	58	46	29	23	960	760	25	20	230	190	ND	<1	420	340	ND	<1	56	44	ND	<1
Floor 10, Core, Hall N & E	2372-72712-P08	ND	<1	1	1	2	2	24	19														
Floor 10 NW	2372-72712-P20	ND	<1	1	1	ND	<1	23	18	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<3	ND	<1
Floor 10 SE	2372-72712-P32	ND	<1	ND	<1	ND	<1	8	7														
Floor 8 SW	2372-72712-P09	ND	<1	1	1	ND	<1	ND	<1														
Floor 8, Elevator Lobby	2372-72712-P21	ND	<1	15	12	1	1	18	14														
Floor 8 E	2372-72712-P33	1	1	1	1	2	1	14	11	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<3	ND	<1
Floor 6, Core, Hall N & E	2372-72712-P10	ND	<1	2	2	1	1	29	23	2	1	1	1	ND	<1	ND	<1	ND	<1	ND	<2	ND	<1
Floor 6 N	2372-72712-P22	ND	<1	ND	<1	1	1	3	2														
Floor 6 S	2372-72712-P34	ND	<1	1	1	1	1	5	3														
Floor 4, Core, Hall N & E	2372-72712-P11	ND	<1	1	1	ND	<1	3	2														
Floor 4 SE	2372-72712-P23	ND	<1	1	1	1	1	ND	<1	ND	<1	1	1	ND	<1	6	5	1	1	ND	<3	ND	<1
Floor 4 W	2372-72712-P35	ND	<1	ND	<1	ND	<1	ND	<1														
Floor 2, Elevator Lobby	2372-72712-P12	ND	<1	4	3	ND	<1	23	18														
Floor 2 S	2372-72712-P24	ND	<1	ND	<1	ND	<1	12	9														
Floor 2 W	2372-72712-P36	ND	<1	1	1	1	1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<2	ND	<1
Exterior, Ground SW	2372-72712-P25	10	8	270	210	63	50	1,300	1,000	56	45	70	55	ND	<1	210	170	2	1	35	28	ND	<1
Exterior, Ground NE	2372-72712-P01	ND	<1	12	9	6	5	300	240	6	5	20	16	ND	<1	48	38	ND	<1	53	42	ND	<1
Field Blank	2372-72712-P37	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<1	ND	<2	ND	<1

PCR = Polymerase chain reaction SE = Spore equivalents ND = Not detected Outdoor sample Not analyzed Above outdoor level

Appendix A
Monthly Air Monitoring Schedule and Protocol



Monthly Air Monitoring Schedule and Protocol

LCD No. 2372.02-572
DGS BOE Technical Support

Monthly Air Monitoring Schedule

Floor	2011	2012											
	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Actual Date	12/30/11	1/27/12	2/24/12	3/30/12	4/27/12	5/25/12	6/29/12	7/27/12					
PH													
24	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
23	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
22	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
21	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
20	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
19	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
18	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
17	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
16	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
15	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
14	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
M													
11	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
10	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
9	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
8	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
7	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
6	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
5	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
4	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
3	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD
2	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI
1	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD	HTI	LCD



Monthly Air Monitoring Schedule and Protocol

LCD No. 2372.02-572
DGS BOE Technical Support

Revised Protocol for Monthly Air Monitoring

1. The IH sampling teams will select an air sampling date which will be submitted to BOE for approval. Currently BOE has approved the last Friday of every month for the monthly air monitoring. BOE should also notify Building Security that hygienists will require escorts onto secure floors in order to install sampling pumps.
2. Each IH team will be responsible for collecting a minimum of three (3) air samples on each of the eleven (11) floors. The building HVAC system operating window is currently 5:00 AM - 6:00 PM; therefore the proposed sampling window is from 4:00 AM - 7:00 PM; the actual sampling window will be adjusted as seasonal adjustments are made to the HVAC system operating window.
3. Each air sample will be drawn over approximately 2 to 3 hours using a digital countdown timer to initiate and terminate the sampling event; the first sampling event shall start 0500; the last (third) sampling event time ends by 1900. A target sample rate of 7 LPM; total sample volume of approximately 1200 liters; the above sampling time to be adjusted to meet the target volume.
4. Each IH team will collect one (1) exterior/outdoor sample per sampling period; for a total of three (3) exterior/outdoor samples per IH team per day.
5. Each sample will be collected, submitted under chain of custody, and analyzed for PCR-Cladosporium (Custom Panel) and one sample per floor analyzed for PCR-23, under standard turnaround time.
6. Air samples on Floor PH and M (which are not part of the regular sampling project schedule) may be added and collected at the direction of the DGS management team.
7. Air samples from Floors 2 and 21 core sampling ports (which are not part of the regular sampling project schedule) may be added and collected at the direction of the DGS management team. Type of samples TBD.
8. The combined IH teams will collect 66 interior + 6 exterior = 72 total air samples.
9. To demonstrate any seasonal changes within the HVAC duct interiors, surface microvac samples (which are not part of the regular sampling project schedule) may be added and collected at the direction of the DGS management team. Samples will be analyzed for *PCR-Cladosporium (Custom Panel)* and for *PCR-23*, under standard turnaround time.
10. Each month, within 7 working days of receiving the final laboratory analytical results, a written Summary Report (one electronic digital copy and four printed copies) shall be submitted to the DGS Project Manager.

Appendix B

Lab Reports



PCR - Custom Panel

Prepared Exclusively For:

LaCroix Davis, LLC.
3685 Mt Diablo Blvd, Suite 210
Lafayette, CA 94549

Project Name: DGS-BOE

Project ID Number: 951155

August 7, 2012

This report has been prepared at the request of and for the exclusive use of the client named in this report. EMLabP&K will not release results or report to a third party without prior written consent.

Results:

Sample ID	2372.72712.P02		2372.72712.P03		2372.72712.P05	
Air Volume [m ³]	1.260		1.260		1.260	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	5	4	47	38	8	6
<i>Cladosporium cladosporioides</i> (Type 2)	1	1	1	1	1	1
<i>Cladosporium herbarum</i>	1	1	1	1	1	1
<i>Cladosporium sphaerospermum</i>	1	1	1	1	ND	<1

Sample ID	2372.72712.P06		2372.72712.P08		2372.72712.P09	
Air Volume [m ³]	1.260		1.260		1.260	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	ND	<1	24	19	ND	<1
<i>Cladosporium cladosporioides</i> (Type 2)	ND	<1	2	2	ND	<1
<i>Cladosporium herbarum</i>	ND	<1	1	1	1	1
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	ND	<1

Sample ID	2372.72712.P11		2372.72712.P12		2372.72712.P15	
Air Volume [m ³]	1.260		1.260		1.260	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	3	2	23	18	11	9
<i>Cladosporium cladosporioides</i> (Type 2)	ND	<1	ND	<1	1	1
<i>Cladosporium herbarum</i>	1	1	4	3	1	1
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	ND	<1

Sample ID	2372.72712.P16		2372.72712.P18		2372.72712.P19	
Air Volume [m ³]	1.624		1.260		1.260	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	3	2	7	5	ND	<1
<i>Cladosporium cladosporioides</i> (Type 2)	1	1	ND	<1	1	1
<i>Cladosporium herbarum</i>	1	1	1	1	1	1
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	ND	<1

Sample ID	2372.72712.P21		2372.72712.P22		2372.72712.P24	
Air Volume [m ³]	1.260		1.260		1.260	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	18	14	3	2	12	9
<i>Cladosporium cladosporioides</i> (Type 2)	1	1	1	1	ND	<1
<i>Cladosporium herbarum</i>	15	12	ND	<1	ND	<1
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	ND	<1

Sample ID	2372.72712.P26		2372.72712.P28		2372.72712.P29	
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LaCroix Davis, LLC.
3685 Mt Diablo Blvd, Suite 210
Lafayette, CA 94549

8/7/12
951155

Air Volume [m ³]	1.215		1.260		1.215	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	ND	<1	8	6	ND	<1
<i>Cladosporium cladosporioides</i> (Type 2)	ND	<1	ND	<1	ND	<1
<i>Cladosporium herbarum</i>	ND	<1	ND	<1	1	1
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	ND	<1

Sample ID	2372.72712.P31		2372.72712.P32		2372.72712.P34	
Air Volume [m ³]	1.215		1.229		1.350	
Fungal ID	SE*	SE/sample	SE*	SE/m3	SE*	SE/m3
<i>Cladosporium cladosporioides</i> (Type 1)	5	4	8	7	5	3
<i>Cladosporium cladosporioides</i> (Type 2)	ND	<1	ND	<1	1	1
<i>Cladosporium herbarum</i>	1	1	ND	<1	1	1
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	ND	<1

Sample ID	2372.72712.P35	
Air Volume [m ³]	1.260	
Fungal ID	SE*	SE/sample
<i>Cladosporium cladosporioides</i> (Type 1)	ND	<1
<i>Cladosporium cladosporioides</i> (Type 2)	ND	<1
<i>Cladosporium herbarum</i>	ND	<1
<i>Cladosporium sphaerospermum</i>	ND	<1

* SE = Spore Equivalents, ND = Not Detected

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PCR - Custom Panel

Prepared Exclusively For:

LaCroix Davis, LLC.
3685 Mt Diablo Blvd, Suite 210
Lafayette, CA 94549

Project Name: DGS-BOE

Project ID Number: 951155

August 7, 2012

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LaCroix Davis, LLC.
3685 Mt Diablo Blvd, Suite 210
Lafayette, CA 94549

8/7/12
951155

Results:

Sample ID	2372.72712.P01		2372.72712.P04		2372.72712.P07	
Air Volume [m ³]	1.260		1.260		1.260	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Acremonium strictum</i>	ND	<1	ND	<1	ND	<1
<i>Alternaria alternata</i>	ND	<1	ND	<1	ND	<1
<i>Aspergillus flavus</i> ^a	ND	<1	ND	<1	ND	<1
<i>Aspergillus fumigatus</i> ^b	6	5	ND	<1	ND	<1
<i>Aspergillus niger</i> ^c	20	16	14	11	1	1
<i>Aspergillus ochraceus</i> ^d	2	2	ND	<1	ND	<1
<i>Aspergillus sydowii</i>	ND	<12	ND	<9	ND	<10
<i>Aspergillus ustus</i>	1	1	ND	<1	ND	<1
<i>Aspergillus versicolor</i>	ND	<2	ND	<1	ND	<2
<i>Chaetomium globosum</i>	ND	<1	ND	<1	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	300	240	4	3	5	4
<i>Cladosporium cladosporioides</i> (Type 2)	6	5	1	1	1	1
<i>Cladosporium herbarum</i>	12	9	2	1	1	1
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	ND	<1
<i>Eurotium</i> (Asp.) <i>amstelodami</i> ^e	48	38	ND	<1	ND	<1
<i>Memnoniella echinata</i>	ND	<1	ND	<1	ND	<1
<i>Paecilomyces variotii</i>	ND	<1	ND	<1	ND	<1
<i>Penicillium aurantiogriseum</i> ^f	ND	<3	ND	<2	ND	<3
<i>Penicillium brevicompactum</i>	53	42	ND	<2	ND	<3
<i>Penicillium chrysogenum</i> (Type 2) ^g	ND	<1	ND	<1	ND	<1
<i>Penicillium purpurogenum</i>	ND	<2	ND	<2	ND	<2
<i>Penicillium variable</i>	30	24	ND	<5	ND	<6
<i>Scopulariopsis brevicaulis</i> ^h	ND	<1	ND	<1	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1	ND	<1	ND	<1
<i>Trichoderma viride</i> ⁱ	ND	<1	ND	<1	ND	<1
<i>Ulocladium botrytis</i>	ND	<1	ND	<1	ND	<1

* SE = Spore Equivalents, ND = Not Detected

^a Includes *A. flavus* and *A. oryzae*

^b Includes *A. fumigatus* and *Neosartorya fischeri*

^c Includes *A. niger*, *A. foetidus* and *A. phoenicis*

^d Includes *A. ochraceus* and *A. ostianus*

^e Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

^f Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

^g Includes dominant subgroup of species

^h Includes *S. brevicaulis* and *S. fusca*

ⁱ Includes *T. viride*, *T. atroviride* and *T. konigii*

LaCroix Davis, LLC.
3685 Mt Diablo Blvd, Suite 210
Lafayette, CA 94549

8/7/12
951155

Results:

Sample ID	2372.72712.P10		2372.72712.P13		2372.72712.P14	
Air Volume [m ³]	1.260		1.260		1.260	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Acremonium strictum</i>	ND	<1	ND	<1	ND	<1
<i>Alternaria alternata</i>	ND	<1	3	2	ND	<1
<i>Aspergillus flavus</i> ^a	ND	<1	ND	<1	ND	<1
<i>Aspergillus fumigatus</i> ^b	2	1	25	20	ND	<1
<i>Aspergillus niger</i> ^c	1	1	230	190	ND	<1
<i>Aspergillus ochraceus</i> ^d	ND	<1	2	2	ND	<1
<i>Aspergillus sydowii</i>	ND	<9	ND	<11	ND	<10
<i>Aspergillus ustus</i>	ND	<1	ND	<1	ND	<1
<i>Aspergillus versicolor</i>	ND	<1	ND	<2	ND	<1
<i>Chaetomium globosum</i>	ND	<1	ND	<1	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	29	23	960	760	22	17
<i>Cladosporium cladosporioides</i> (Type 2)	1	1	29	23	1	1
<i>Cladosporium herbarum</i>	2	2	58	46	1	1
<i>Cladosporium sphaerospermum</i>	ND	<1	1	1	1	1
<i>Eurotium</i> (Asp.) <i>amstelodami</i> ^e	ND	<1	420	340	ND	<1
<i>Memnoniella echinata</i>	ND	<1	ND	<1	ND	<1
<i>Paecilomyces variotii</i>	ND	<1	ND	<1	ND	<1
<i>Penicillium aurantiogriseum</i> ^f	ND	<3	ND	<3	ND	<3
<i>Penicillium brevicompactum</i>	ND	<2	56	44	3	3
<i>Penicillium chrysogenum</i> (Type 2) ^g	ND	<1	ND	<1	ND	<1
<i>Penicillium purpurogenum</i>	ND	<2	11	8	ND	<2
<i>Penicillium variabile</i>	ND	<6	ND	<6	ND	<6
<i>Scopulariopsis brevicaulis</i> ^h	ND	<1	ND	<1	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1	ND	<1	ND	<1
<i>Trichoderma viride</i> ⁱ	ND	<1	ND	<1	ND	<1
<i>Ulocladium botrytis</i>	ND	<1	ND	<1	ND	<1

* SE = Spore Equivalents, ND = Not Detected

^a Includes *A. flavus* and *A. oryzae*

^b Includes *A. fumigatus* and *Neosartorya fischeri*

^c Includes *A. niger*, *A. foetidus* and *A. phoenicis*

^d Includes *A. ochraceus* and *A. ostianus*

^e Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

^f Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

^g Includes dominant subgroup of species

^h Includes *S. brevicaulis* and *S. fusca*

ⁱ Includes *T. viride*, *T. atroviride* and *T. koningii*

LaCroix Davis, LLC.
3685 Mt Diablo Blvd, Suite 210
Lafayette, CA 94549

8/7/12
951155

Results:

Sample ID	2372.72712.P17		2372.72712.P20		2372.72712.P23	
Air Volume [m ³]	1.260		1.260		1.260	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Acremonium strictum</i>	ND	<1	ND	<1	ND	<1
<i>Alternaria alternata</i>	ND	<1	ND	<1	ND	<1
<i>Aspergillus flavus</i> ^a	ND	<1	ND	<1	ND	<1
<i>Aspergillus fumigatus</i> ^b	ND	<1	ND	<1	ND	<1
<i>Aspergillus niger</i> ^c	ND	<1	ND	<1	1	1
<i>Aspergillus ochraceus</i> ^d	ND	<1	ND	<1	ND	<1
<i>Aspergillus sydowii</i>	ND	<9	ND	<10	ND	<11
<i>Aspergillus ustus</i>	ND	<1	ND	<1	ND	<1
<i>Aspergillus versicolor</i>	ND	<1	ND	<1	ND	<2
<i>Chaetomium globosum</i>	ND	<1	ND	<1	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	2	2	23	18	ND	<1
<i>Cladosporium cladosporioides</i> (Type 2)	ND	<1	ND	<1	1	1
<i>Cladosporium herbarum</i>	1	1	1	1	1	1
<i>Cladosporium sphaerospermum</i>	ND	<1	ND	<1	ND	<1
<i>Eurotium</i> (Asp.) <i>amstelodami</i> ^e	ND	<1	ND	<1	6	5
<i>Memnoniella echinata</i>	ND	<1	ND	<1	ND	<1
<i>Paecilomyces variotii</i>	1	1	ND	<1	1	1
<i>Penicillium aurantiogriseum</i> ^f	ND	<2	ND	<3	ND	<3
<i>Penicillium brevicompactum</i>	ND	<2	ND	<3	ND	<3
<i>Penicillium chrysogenum</i> (Type 2) ^g	4	3	ND	<1	ND	<1
<i>Penicillium purpurogenum</i>	ND	<1	ND	<2	ND	<2
<i>Penicillium variable</i>	ND	<5	ND	<6	ND	<7
<i>Scopulariopsis brevicaulis</i> ^h	ND	<1	ND	<1	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1	ND	<1	ND	<1
<i>Trichoderma viride</i> ⁱ	ND	<1	ND	<1	ND	<1
<i>Ulocladium botrytis</i>	ND	<1	ND	<1	ND	<1

* SE = Spore Equivalents, ND = Not Detected

^a Includes *A. flavus* and *A. oryzae*

^b Includes *A. fumigatus* and *Neosartorya fischeri*

^c Includes *A. niger*, *A. foetidus* and *A. phoenicis*

^d Includes *A. ochraceus* and *A. ostianus*

^e Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

^f Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

^g Includes dominant subgroup of species

^h Includes *S. brevicaulis* and *S. fusca*

ⁱ Includes *T. viride*, *T. atroviride* and *T. koningii*

LaCroix Davis, LLC.
3685 Mt Diablo Blvd, Suite 210
Lafayette, CA 94549

8/7/12
951155

Results:

Sample ID	2372.72712.P25		2372.72712.P27		2372.72712.P30	
Air Volume [m ³]	1.260		1.260		1.260	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/m3
<i>Acremonium strictum</i>	ND	<1	ND	<1	ND	<1
<i>Alternaria alternata</i>	1	1	ND	<1	ND	<1
<i>Aspergillus flavus</i> ^a	3	2	ND	<1	ND	<1
<i>Aspergillus fumigatus</i> ^b	56	45	ND	<1	ND	<1
<i>Aspergillus niger</i> ^c	70	55	ND	<1	ND	<1
<i>Aspergillus ochraceus</i> ^d	ND	<1	ND	<1	ND	<1
<i>Aspergillus sydowii</i>	ND	<9	ND	<13	ND	<10
<i>Aspergillus ustus</i>	2	2	ND	<1	ND	<1
<i>Aspergillus versicolor</i>	ND	<1	ND	<2	ND	<1
<i>Chaetomium globosum</i>	ND	<1	1	1	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	1300	1000	17	13	ND	<1
<i>Cladosporium cladosporioides</i> (Type 2)	63	50	1	1	ND	<1
<i>Cladosporium herbarum</i>	270	210	2	2	ND	<1
<i>Cladosporium sphaerospermum</i>	10	8	1	1	ND	<1
<i>Eurotium</i> (Asp.) <i>amstelodami</i> ^e	210	170	ND	<1	ND	<1
<i>Memnoniella echinata</i>	ND	<1	ND	<1	ND	<1
<i>Paecilomyces variotii</i>	2	1	ND	<1	ND	<1
<i>Penicillium aurantiogriseum</i> ^f	15	12	ND	<3	ND	<3
<i>Penicillium brevicompactum</i>	35	28	ND	<3	ND	<3
<i>Penicillium chrysogenum</i> (Type 2) ^g	ND	<1	ND	<1	ND	<1
<i>Penicillium purpurogenum</i>	ND	<2	ND	<2	ND	<2
<i>Penicillium variabile</i>	ND	<5	ND	<8	ND	<6
<i>Scopulariopsis brevicaulis</i> ^h	1	1	ND	<1	ND	<1
<i>Stachybotrys chartarum</i>	1	1	ND	<1	ND	<1
<i>Trichoderma viride</i> ⁱ	ND	<1	ND	<1	ND	<1
<i>Ulocladium botrytis</i>	ND	<1	ND	<1	ND	<1

* SE = Spore Equivalents, ND = Not Detected

^a Includes *A. flavus* and *A. oryzae*

^b Includes *A. fumigatus* and *Neosartorya fischeri*

^c Includes *A. niger*, *A. foetidus* and *A. phoenicis*

^d Includes *A. ochraceus* and *A. ostianus*

^e Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

^f Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

^g Includes dominant subgroup of species

^h Includes *S. brevicaulis* and *S. fusca*

ⁱ Includes *T. viride*, *T. atroviride* and *T. koningii*

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Lafayette, CA 94549

8/7/12
951155

Results:

Sample ID	2372.72712.P33		2372.72712.P36		2372.72712.P37	
Air Volume [m ³]	1.215		1.260		NA	
Fungal ID	SE*	SE/m3	SE*	SE/m3	SE*	SE/sample
<i>Acremonium strictum</i>	ND	<1	ND	<1	ND	<1
<i>Alternaria alternata</i>	ND	<1	ND	<1	ND	<1
<i>Aspergillus flavus</i> ^a	ND	<1	ND	<1	ND	<1
<i>Aspergillus fumigatus</i> ^b	ND	<1	ND	<1	ND	<1
<i>Aspergillus niger</i> ^c	ND	<1	ND	<1	ND	<1
<i>Aspergillus ochraceus</i> ^d	ND	<1	ND	<1	ND	<1
<i>Aspergillus sydowii</i>	ND	<12	ND	<8	ND	<9
<i>Aspergillus ustus</i>	ND	<1	ND	<1	ND	<1
<i>Aspergillus versicolor</i>	ND	<2	ND	<1	ND	<1
<i>Chaetomium globosum</i>	ND	<1	ND	<1	ND	<1
<i>Cladosporium cladosporioides</i> (Type 1)	14	11	ND	<1	ND	<1
<i>Cladosporium cladosporioides</i> (Type 2)	2	1	1	1	ND	<1
<i>Cladosporium herbarum</i>	1	1	1	1	ND	<1
<i>Cladosporium sphaerospermum</i>	1	1	ND	<1	ND	<1
<i>Eurotium</i> (Asp.) <i>amstelodami</i> ^e	ND	<1	ND	<1	ND	<1
<i>Memnoniella echinata</i>	ND	<1	ND	<1	ND	<1
<i>Paecilomyces variotii</i>	ND	<1	ND	<1	ND	<1
<i>Penicillium aurantiogriseum</i> ^f	ND	<3	ND	<2	ND	<2
<i>Penicillium brevicompactum</i>	ND	<3	ND	<2	ND	<2
<i>Penicillium chrysogenum</i> (Type 2) ^g	ND	<1	ND	<1	ND	<1
<i>Penicillium purpurogenum</i>	ND	<2	ND	<1	ND	<2
<i>Penicillium variabile</i>	ND	<7	ND	<5	ND	<5
<i>Scopulariopsis brevicaulis</i> ^h	ND	<1	ND	<1	ND	<1
<i>Stachybotrys chartarum</i>	ND	<1	ND	<1	ND	<1
<i>Trichoderma viride</i> ⁱ	ND	<1	ND	<1	ND	<1
<i>Ulocladium botrytis</i>	ND	<1	ND	<1	ND	<1

* SE = Spore Equivalents, ND = Not Detected

^a Includes *A. flavus* and *A. oryzae*

^b Includes *A. fumigatus* and *Neosartorya fischeri*

^c Includes *A. niger*, *A. foetidus* and *A. phoenicis*

^d Includes *A. ochraceus* and *A. ostianus*

^e Includes *E. amstelodami*, *E. chevalieri*, *E. herbariorum*, *E. rubrum* and *E. repens*

^f Includes *Penicillium aurantiogriseum*, *P. freii*, *P. polonicum*, *P. tricolor*, *P. viridicatum*

^g Includes dominant subgroup of species

^h Includes *S. brevicaulis* and *S. fusca*

ⁱ Includes *T. viride*, *T. atroviride* and *T. koningii*

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WEATHER	Fog	Rain	Snow	Wind	Clear
None					
Light					
Moderate					
Heavy					

FACDRIX DAVIS, INC Company:	3605 Mt. Diablo Blvd Ste 210 Address:	Lafayette, CA 94549 Special Instructions:
C. Corpuz, Fice; A. Steinbach Contact:	Phone: 925.299.1140	

PROJECT INFORMATION	STANDARD SCHEDULE
Project ID: DGS-130E	Standard (Default)
Project Desc.: Monthly Air Monitoring	Next Business Day
Project: Sampling	SD - Same Business Day
Date & Time: 7/27/12	Rush
Zip Code: 10.0	WH - Weekend/Holiday

Job No.	Location	Depth	Soil	Remarks	Time	Notes
22712	Exterior - Ground	NE	0	STD	1260	5:15 7.0
22712	Floor 24 - Core Hall	SW	0	STD	1260	5:24 7.0
22712	Floor 22 - Core Elevator Lobby		0	STD	1260	5:32 7.0
22712	Floor 20 - Core Hall	SW	0	STD	1260	5:36 7.0
22712	Floor 18 - Core Hall	NE	0	STD	1260	5:41 7.0
22712	Floor 16 - Core Hall	SW	0	STD	1260	5:46 7.0
22712	Floor 14 - Core Hall	NE	0	STD	1260	5:51 7.0
22712	Floor 10 - Core Hall	NE	0	STD	1260	6:00 7.0
22712	Floor 8 - SW		0	STD	1260	6:05 7.0
22712	Floor 6 - Core Hall	NE	0	STD	1260	6:11 7.0
22712	Floor 4 - Core Hall	NE	0	STD	1260	6:19 7.0
22712	Floor 2 - Core Elevator Lobby		0	STD	1260	6:25 7.0

BC - Bio-Cassette™	ST - Spore Trap: Zefon, Allergenco, Burkard...	T - Tape	D - Dust	DATE TIME
A15 - Andersen	P - Potable Water	SW - Swab	SO - Soil	
SAS - Surface Air Sampler	B - Bulk	O - Other:		
CP - Contact Plate	NP - Non-Potable Water			
				7/23/12 1:00
				7-31-12

Non-Culturable	Sporic	Type	000951155	Barcode	Other Remarks
	Trap	Swab Bulk			

[illegible]

DATE	TIME	REMARKS
7/30/12	8:30	Drop Box
	9:30	

Cherry Hill, NJ: 1936 Quincy Avenue, Cherry Hill, NJ 08003 * (856) 871-1984

Phoenix, AZ: 1501 West Krudsen Drive, Phoenix, AZ 85027 • (800) 651-4802

San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 • (856) 888-6653

Company:	LAGRANX DAVIS, LLC	3665 Mt Diablo Blvd Ste 210 Lafayette, CA 94549 Address: Special Instructions:
Contact:	C. Corpuz; T. Ice; A. Steinbach	
Phone:	925.299.1140	

Project ID: DGS-BDE		Project Name: Breathing Air Monitoring - July	
Project Desc:	Sampling	Date & Time:	7/27/12
Zip code:			
PO Number:	2372-02-572		

Standard (DEFAULT)	
ND - Next Business Day	
SD - Same Business Day Rush	
WH - Weekend/Holiday	

[illegible]

GC - BioCassette SM	ST - Spore Trap: Zefon, Allergenco, Burkard...	T - Tape	D - Disc	DATE	TIME
A15 - Andersen		SW - Swab	SO - Soil		
AAS - Surface Air Sampler	P - Potable Water	B - Built			
CP - Contactor Plate	NP - Non-Potable Water	O - Other:			

Drop Box
OMK
7/30/12
8:30am
930

[illegible]
000951155

	Fog	Rain	Snow	Wind	Clear
None					5
Light					
Moderate					
Heavy					



Cherry Hill, NJ: 1936 Olney Avenue, Cherry Hill, NJ 08003 • (866) 871-1984

Phoenix, AZ: 1501 West Knudsen Drive, Phoenix, AZ 85027 • (800) 651-4802

San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 • (866) 888-6653

Company: Lacroix Davis, LLC

Contact: C. Corpurz, T. Ke; A. Stembach

Phone: 925-299-1140

Address: 3685 Mt. Diablo Blvd Ste 210

Special Instructions: Lafayette, CA 94549

Project ID: DGS-BOE

Project Name: Monthly Air Monitoring, July

Project Number: 2372102-572 10.0

Project Date & Time: 7/27/12

Project Location: Exterior - Ground SW

Project Sampling Date & Time: 7/27/12

Project PO Number: 2372102-572 10.0

Project Standard (DEFAULT): STD

Project ND - Next Business Day

Project SD - Same Business Day Rush

Project WH - Weekend/Holiday

Project Rain

Project Fog

Project Snow

Project Wind

Project Clear

Project None

Project Light

Project Moderate

Project Heavy

Project Spore

Project Tape

Project Swab

Project Bulk

Project Non-Culturable

Project BioCas

Project Water, Bulk, Dust, Soil, Contact Plate

Project Other

Weather	Fog	Rain	Snow	Wind	Clear
None					
Light					
Moderate					
Heavy					

Spore
Trap

Quantitative Spore Count Direct Exam

Direct Microscopic Exam (Qualitative)

Spore Trap Analysis - Other particles

Fungi - Spore Trap Analysis

1-Media Surface Fungi (Genus ID + Asp. spp.)

2-Media Surface Fungi (Genus ID + Asp. spp.)

3-Media Surface Fungi (Genus ID + Asp. spp.)

Culturable Air Fungi (Genus ID + Asp. spp.)

Gram Stain and Counts (Culturable Air and Surface Bacteria)

Legionella culture

Total Coliform, E. coli (Presence/Absence)

Membrane Filtration (Please specify organism)

MPP Bacteria (Please specify organism)

Quantitray - Sewage Screen

Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400)

Asbestos Analysis - PLM (EPA method 600/R-93-116)

PCR (Please specify test)

Other Requests

000951155

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San Bruno, CA: 1150 Bayhill Drive, #100, San Bruno, CA 94066 • (866) 888-8653

SEVENTEEN	Fog	Snow	Wind	Clear
None				
Light				
Moderate				
Heavy				

Company:	LACROIX DAVIS, LLC	Address:	3635 N.W. Diabolo Blvd. Ste 210
Contact:	C. Corpuz i.T.ice; A. Steinbach	Special Instructions:	Lafayette CA 94509
Phone:	925.299.1140		

Project ID: DGS-BOE		Project Information	
Area: 14 Air Monitoring - July		Sampling Date & Time: 7/27/12	
Project Description:		Zip Code:	
Order Number: 2372.02-572		10.00	

TURN AROUND TIME DESIRED (DATE)		(THIS FIELD IS REQUIRED FOR ALL ORDERS)	
STD - Standard (DEFAULT)			
ND - Near Business Day			
SD - Same Business Day Rush			
WH - Weekend/Holiday			

[illegible]

SAMPLE TYPE CODES		ANALYSED BY		DATE
ST - Spore Trap: Zefon, Allergenco, Burkard...	T - Tape	D - Duer	Thermon	7/24/12
11S - Andersen	5W - Swab	SO - Soil		
AS - Surface Air Sampler	B - Bulk			
P - Potable Water	O - Other:			
NP - Non-Potable Water				731-12

[illegible]

RECEIVED BY DATE TIME
DROPPED 7/30/12